

LAKE: SWETTS (SWEETS) P (VLMP 19)
 TOWN: ORRINGTON
 COUNTY: PENOBSCOT

MIDAS: 5544
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

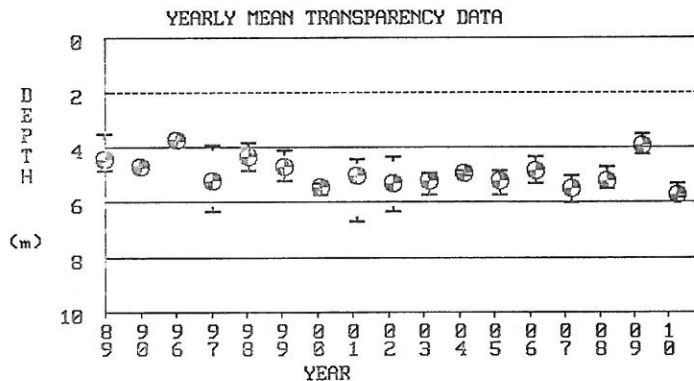
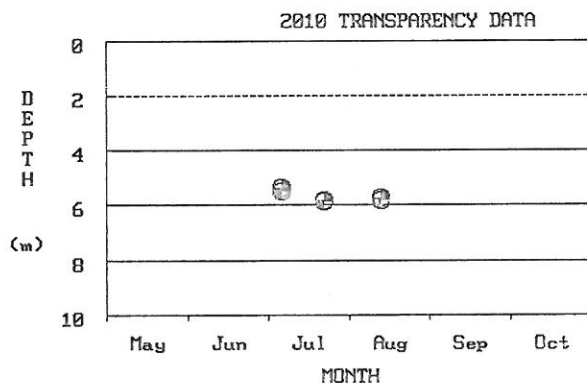
MAX. DEPTH: 7 m. (24 ft.)
 MEAN DEPTH: 3 m. (11 ft.)
 DELORME ATLAS #: 23
 USGS QUAD: HAMPDEN
 IFW REGION C: Grand Lake Stream (Machias)
 IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 40.0 ha. (98.8 a.)
 FLUSHING RATE: 4.31 flushes/yr.
 VOLUME: 1069789.0 cu. m. (868 ac.-ft.)
 DIRECT DRAINAGE AREA: 8.68 sq. km. (3.35 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. SWETTS (SWEETS) P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
	(SPU)		(mg/l)	(uS/cm)	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
					CORE	GRAB	GRAB	GRAB											
1989	-	-	-	-	-	-	-	-	3.5	4.4	4.8	2	-	-	-	-	-	-	-
1990	30	6.63	5.5	40	8	-	-	-	4.7	4.7	4.7	1	4.5	4.5	4.5	-	-	-	-
1996	40	6.98	6.0	31	20	-	23	-	3.7	3.7	3.7	1	-	-	-	-	-	-	-
1997	27	7.03	8.0	38	10	-	19	11	3.9	5.2	6.3	5	6.1	6.1	6.1	-	-	46	-
1998	-	-	-	-	-	-	-	-	3.8	4.3	4.8	3	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	4.1	4.7	5.2	3	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	5.3	5.4	5.7	2	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	4.4	5.0	6.7	4	-	-	-	-	-	-	-
2002	13	-	9.5	50	22	-	13	-	4.3	5.3	6.3	4	2.2	2.2	2.2	-	-	-	-
2003	-	-	-	-	-	-	-	-	4.9	5.2	5.7	3	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	4.8	4.9	5.0	3	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	4.8	5.2	5.7	3	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	4.3	4.8	5.3	3	-	-	-	-	-	-	-
2007	24	7.10	7.4	39	7	-	19	-	5.0	5.5	6.0	2	2.7	2.7	2.7	-	-	-	-
2008	-	-	-	-	-	-	-	-	4.7	5.2	5.5	2	-	-	-	-	-	-	-

LAKE: SWETTS (SWEETS) P (VLMP 19)
 TOWN: ORRINGTON
 COUNTY: PENOBSCOT

MIDAS: 5544
 *TRUE BASIN: 1
 *SAMPLE STATION: 1

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

YEAR	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
					EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI	PHOS	SEC	CHL
					CORE	GRAB	GRAB	GRAB								C	G		
2009	-	-	-	-	-	-	-	-	3.5	3.9	4.2	3	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	5.3	5.7	5.8	2	-	-	-	-	-	-	-
SUMMARY:	27	6.89	7.3	40	13	-	19	11	3.5	4.9	6.7	17	2.2	3.9	6.1	-	-	46	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH m	SAMPLE DATE									
	08/17/90		09/19/96		08/14/97		08/15/02		08/14/07	
	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	25.7	8.1	17.0	8.2	22.9	7.6	27.0	8.0	23.2	7.9
1.0	24.7	8.2	17.0	8.2	23.0	7.5	27.0	7.9	23.2	7.9
2.0	24.5	8.0	17.0	8.2	23.0	7.5	25.9	8.2	23.2	7.9
3.0	24.2	8.0	17.0	8.0	23.0	7.4	24.4	8.0	23.2	7.9
4.0	22.4	4.8	17.0	8.0	22.8	7.2	23.2	7.0	22.3	7.1
5.0	18.0	0.7	17.0	8.0	19.7	2.0	19.6	2.6	19.2	4.5
6.0	14.7	0.4	16.0	2.4	15.5	0.2	16.3	0.7	15.0	1.0
7.0	13.3	0.3	14.0	0.4	13.2	0.1	14.1	0.2	13.2	0.1
8.0	13.2	0.3	14.0	0.4	12.9	0.1	13.8	0.2	12.4	0.1
9.0	13.0	0.2	13.5	0.3	12.8	0.1	-	-	-	-

WATER QUALITY SUMMARY

SWETTS (SWEETS) POND, Orrington

Midas: 5544, Station: 01 - Primary

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Swetts Pond have been collected since 1989. During this period, 4 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Swetts Pond is considered to be average, based on measures of SDT, total phosphorus (TP) and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Swetts Pond is low to moderate.

Water Quality Measures: Swetts Pond is a slightly colored lake (average color 27 SPU) with an average SDT of 4.8m (15.9ft). The range of water column TP for Swetts Pond is 8-22 parts per billion (ppb) with an average of 15 ppb, while Chla ranges from 2.2-6.1 ppb with an average of 4.3 ppb. Recent dissolved oxygen (DO) profiles show moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low to moderate.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: SWET5544, Revised: 12/06, By: JP